1939

UNITED STATES
DEPARTMENT OF THE INTERIOR

DI-6

APPROVED DECEMBER 1941

F

51·58

Climatic Changes recorded by Tertiary Land Floras in N. Am. North America Wolfe & Hopkins

Int. Coral. & Clim. Changes in Pacific 2/28/67

The Den of Antiquity

Limatia & Legume. Nord pedunculate pitcoides

Docs for Pinnophyllum

Ochroma in Bombacaceae

Dipteryx seeds to teeth but send tests to sinus where they meet from both upper & lower etc.

Platycarya Platycarya Carya. many branched rays at many forward pointing teeth?

Platanophyllum Font.

Some possible rel. to Sapindales Hamamelid Complex

✓ Palocene Hamamelid for Hobaeds

Scott in Chandler 1964

Wood of Betula

See Chalk Bluffs.
Mac. 1941

Comstock 1935.

See Doz. 1939-1941

Checks Pseudotsuga from
Pinus ponderosa
Podocarp pollen
in
mid-Tert.

Carya entry
prob. close to Carya
but not Carya.

Pdoxylon not a modern
Mesoxylon for
Tert. fossil genus

type P. arcticum is Br.
Museum
No. true. Cercid from
Greenland.

C. cinnatum from Tert

21
Zeichnung
A. Archephyticum

Theaceae

Marginal ardots

Meristolepis porting inward from marginal ards

Leaves of Heis material
= Coccoloba
Ords f. 6 yrs

Quercus gheland - Fagopsis

Read Richards on leaves.
Le Trop Rain Forest.
Sec 1952.

Browns for Cuba on
Bowland Coal.

Meliosma flexuosa
Closely rel.
Dryophyllum subfalcatum

Venus of Brown
= Pacanocarya.

Rhamnaceae
vs
Dipterocarpaceae

Dipt bend between pans

Rhamn. straight across

Alnus base ~~Xylem~~
of HSR

Cannabis from Bendemeer
on pellucid dots

Use Tolune for HSR base

Roll out leaf using photographic roller

Imprint a fern leaf

Marsilia

Thuja dolabrata

Like Thuja in berry
4 ranked.

Unlike in berry opposite

Appears that older growth
becomes alternate

Austrocedrus is 2 ranked.

Cones of Thuja dolabrata on old
but cones like 4V-2 scales.

Longue vers Flora

Oct. 1508.

sem. Vit. antiquis

Crispa Ad. sessile by wrapping
stem
Vit. or Sarcalonius.

Cocculus Halbella

Ilmus ?

Anona

Corylus ?

~~Resist~~ t.

~~Colorado~~

Black Butte PA 296

Persicaria virginiana

"Viburnum Cup"

Cordate legume.

Dense
Serrate retrorse

Kerry & Lakes.

Salix cockerelli
Populus
Cyrodium hauftonii
Platanophyllum notelis!

Cercidiphyllum or 2 species

Laurales sp.

Platanus
3 species ovate entire
tuft acuate north. many secs.
Pterocarya

2 others
Fagus like F. Crenata
Cedrela - ent long vale base acum.
Alnites
Platanus
Acalypha
Cinnamomum - entire esp scaly
Callicoma
Persea or Litsea
Myrsine
Symplocos
Styrax
Daphnogene ?
Symplocos
Osmanthus

Cryptenia wendi
(Cyclocaulus)
Rhus rariabilis

Sand Rock

Fish Lake Mt.

"Dryopteris woodii"

~~Stuy~~

Sturcaya

semi reticulate

test. indurys.

Pors. Azolla

Adangium

3 palmate - entire margin

with many sacs

~~with tube~~ tests around

Baldwater Flora near
Lysite Hyp

Asplenium
Platyneuron with narrow and lobed
Compd and many small leaves
Ruta-muraria

Asplenium
Ebenoides
Woodwardii
Tricho. like small
Ruta-muraria
Lyrate pods
Circinalis? Cav.

Thelypteris
Phegopteris decidentalis
Cystopteris
Fragilis

Kind Clark

Eubois

Late Early Eocene

Sparganium ent.
Mastixioidea
Equisetum
Onoclea
Cupressinoxylon sp. nov.
Taxodium L. & S. kaufferi
Populus Idaho Mack P. cinnamomoides
Magnolia
Dilophyllites of edulis w/ fruit
M. grandis
Hamamelis
Alangium fruits
Mahonia
Limnobiophyllum
Neolitsea nervis dentate 3 nerved
Lygodium
Cinnamomum?
Nelumbium ind crate tricarpellate sp
Leguminosa seeds

Heteropteryx

Liquidambar
Alnus

Wind River –
Late Early Eocene
Contd.

Vaquelinia
Cassia
Claudia or Palurius
Cryptocarya ?

Sassafras
Cornus
Maesa sp.
Diospyros
Pors. – ? Myrsine
Myrsa?
Cilastrus
Prunus cf. Lauracina
Quercus
Philadelphus or Lauracae
Bean pod
Cercis cf. Mimosites
Pods cf. Gordonia
Cidrella
Juglans
Fimiana
Celastrus
Rhamnus
Ampelopsis
Cornelia
Pinus cf. Pinus sylvestris ?
Acer cf. Miliana

Gouria in Clarno Fla.

Find a Forest Service map for South Fla

NW ¼ T 4 S N, R 10 G

Lance Flora.

Pulvinaster inquirenda

No. 2582
Loc. P 3854

√ Caryster mucosus Lesq.
No. 2578
= Porosia venucosa. Loc. P. 3651 (1942)
Tuberculate, depressed rim.
kidney shaped.

Sabalites montana (Kn.)
Dorf CIW. 508

No. 1300
Very wide Costa. Lobes
like ~~S.~~ Sabalmophyllum.
P 47. Pl. 3, fig. 2 (1942)

Sabalites lanicera (Lesq.) Dorf
No. 1302
P. 48, Pl. 2, √ 6, Pl. 3, √ 3
2 spec. part + Counterpart (1942)

Dryopteris subfalcatum Ley
ancest. of Md flex.

Cal. no

2582 Pilosotypa
Palisadia
12 ~~long~~ Carpels
~~long + L~~
Lat. striate

1384 appears to have 10 Carpels
is lat striate

1383 lat Strata

8

Note to Don Lavoye for
Program of Systematic Col
Pulvolotany

Malcom McKenna.
Paleocene in Pretty Creek Basin.

Bob Garrison 129-
331 Natl Sci 2574, 2896

1411 Laurel St. Santa Cruz
95060
423-8362

Eldridge. Home 756-4139

Mac.
707 · BA6 - 3258

Bob Garrison
Natl Sci 2 Bldg 4th floor
461

Down Hwy 101
Turn on Hwy 17
To Santa Cruz.
Get to S. Cruz. to Halfmoon Bay
Hwy (1)
Mission St. sign for UC. turn N.
Follow Bay St. to Campus.
Follow main road

7-10
Aug. 1969

691 Three Tarns Loc.,
NE¼ sec 3, T 41 N, R 110W
FREMONT CO., WYO.

SAPOTACEAE

Collectors- L. J. Hickey, [redacted]
ARMAND LePage, J.
McKendry.

692. SOUTHERN TREE FARMS
INC.

NE 1/4, SE 1/4, Sec. 3, T 41 N

693 Tipperary M. Eoc

Abt. 100 ft. Above Wind River
Across Contact in
Center Sec 18, T 6N, R 4W, Freemont Co
Ayerus ? sp

PLATANUS nobilis
P. reynoldsii
P. brownii
Alnites
Cedrela = Juglans cinerea
Lygodium Kaulfussi
Equisetum tipperarensis
Palmacites (Armed rachis)
A true juglans
Sparganium
Tiliaceous leaf

All labeled 693-2
occurred together
at palm loc.

694 Leeds Creek Head

NE¼, NW¼, Sec. 35, T 12 S, R 11 W.

Sheridan Pass, Quad.

Tuffaceous ss & sh.

Petrified wood &

leaf frags

695 Devil's Basin Loc.

SW¼ SW¼ Sec. 27, T 44N
Sheridan Pass Quad R 110W
Fremont Co., Wyo.

Pl. layer just below
arkosic ss. coarse

Pl. layer 8 IN thick
upper 5" frey. xbedded

Bare slope to west
No fossils

found very little
not worth returning

Aug 17.

696 Fish Creek Loc Paleoc.

Center, NW 1/4, SW 1/4, Sec. 9
T 41 N R 110 W
Teton Co. Wyo. Sheridan Pass Quad.

Metasequoia occidentalis ✓
Platanus raynoldsii
Trapa macrophylla ✓
Cercidiphyllum arcticum ✓
Nelumbium montanum
"Corylus acutiloba" ✓
~~Meliosma flexuosa ? may be~~
Persites arguta
Viburnum copaioides ✓
Fruit of C. arcticum
Ampelopsis acerifolia ✓
Porosia verrucosa (broken) ✓

Report to Bill Rohrer 10/20/70

Nv

~Pl~ Wiggins Fm.
radiom.

Eoc Tepee Trail fm. ? Aycross Fm.
at Tipperary

(Time equiv. to Pitchfork Fm ??)

Coyote Cr. Fl. Bed
Fl. or

Upper Wind River Fm

Verts of L. Eoc

Lower Verigated

Paleoc. Lower Vertebrate Fm
Coals, SS & Carb Shs

Pinyon Congl.

White Beds in Leeds Creek
Meadows [illegible] m. esc.

Horizon of Pierre Trail
Em (Elk Butte Shale) is
below hor A
Marks [illegible] from hor A
" Thought fig 2 of
[illegible] be younger
"Green River".

Age of Meeteetsee Fm Cret.

PITCH fork Fm. [illegible]
[illegible] [illegible] [illegible] Null.

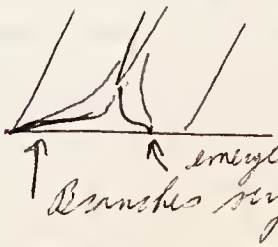
Pierre named Course
[illegible] Tracks.
[illegible]

U.C. Berkeley

2 amicles. U.C. 2143

Long Venation as illust
Reticulate areolation
in between

Hemiulla ~~sinuata~~ pinnata 2143
Ven. below sinus as illust
Definite falcate shape



emerges well below m.r. of
Branches very early pinni

Typ. or no of veins in
~~pinnal~~
pinnule?

Coll

Catalogue

No. Name det. Family Collectors no.

Loc. Herb. No.

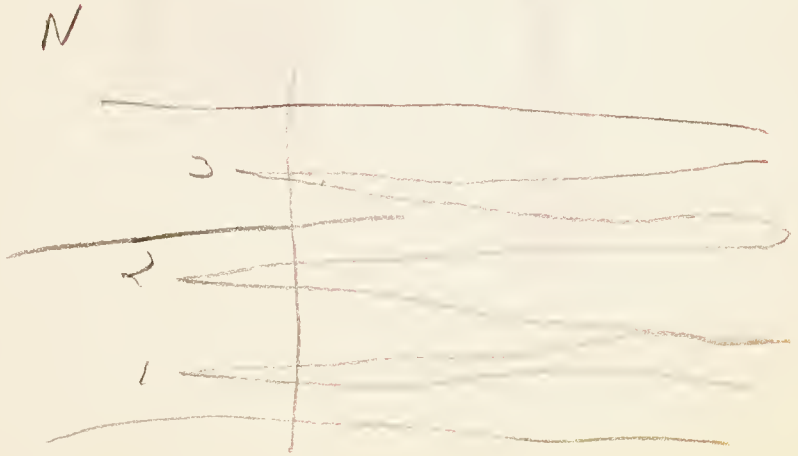
(Pteris)
Hemitelia inequifoliata (Hsliéd)
Hooke — Baker
= H. pinnata Mac.

PANTENE

~~Chaetopteleid~~

Chaetopteleid
Hemitelia
2 amils.

Lesquereux Bdlm.
Palms


N
S
3
2
1